

MATHEMATICS - Basic Option – BS (122 hours)

Effective 2014

NAME	PID	Optional 2 nd Major or Minor
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FOUNDATIONS

English Comp. and Rhetoric	Foreign Language* HSFL(s) _____	Quant. Reas. (QR)	Lifetime Fitness (LFIT)
	1. _____	3. _____	(1 hr.)
	2. _____	4. _____	

* Through Level 3

APPROACHES

Phys. and Life Sciences (PX/PL)	Social and Behavioral Sciences**	Humanities/Fine Arts
	Hist. Analysis (HS):	Vis. & Perf. Arts (VP):
	Soc.Sci./Hist. Analysis (SS/HS):	Literary Arts (LA):
	Soc.Sci./Hist. Analysis (SS/HS):	Phil. Reasoning (PH):

**From at least two departments

CONNECTIONS

Communication Int. (CI)	Quant. Int. (QI) or 2nd Quant. Reas. (QR)	Experiential Ed. (EE)	Global Issues (GL)
US Diversity (US)	North Atlantic World (NA)	World before 1750 (WB)	Beyond the NA (BN)

MAJOR/MINOR/ELECTIVES

ADDITIONAL REQUIREMENTS	MATHEMATICS ♦ Core Courses (10 Courses)			
MATH 233	MATH 381			
	MATH 383			
	MATH 521			
	♦♦			
Natural Sciences (##)				
1.				
2.	(#)			♦ 18 hours ≥ C (not C-) required in mathematics courses numbered above 520 . COMP 116, MATH 381 and MATH 383 may not count toward hours of C. ♦♦ Preferably before senior year (#) Three courses in MATH numbered above 520. (##) Four courses in the Division of Natural Sciences and Mathematics (beyond the General Education requirements), but not taken in the Math department.
3.	(#)			
4.	(#)			

Date/Advisor			
Remaining courses after this term: ___ Foundations _____ ___ Approaches _____ ___ Connections _____ ___ Supplemental _____ _____ (hrs C____) _____ _____ (hrs C____) _____ _____ (hrs C____) _____ Requirements subtotal _____ Total _____	Hours to be deducted: Repeated courses _____ HSFL _____ Online courses > 24 _____ Online in Major/minor > 6 _____ Professional School > 24 _____ Hours in subject (BA) > 45 _____ Total _____	Hours Tally: Hours to date: _____ Hours in progress*: _____ Subtotal _____ Hours deducted _____ Hours after this term _____ Hours remaining to grad _____ Semesters left _____ *Include pending study abroad hours	Notes:

This tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps

Graduate and Career Opportunities

B.A. or B.S. degree with a major in mathematics, suggestions for pure mathematics:

These courses provide a solid theoretical understanding of central mathematics and excellent preparation for graduate study in mathematics or the mathematical sciences.

- MATH 521 and 522
- MATH 577 and 578
- Enough upper-level mathematics courses to satisfy the degree requirements

Those planning graduate study in mathematics or the mathematical sciences may consider taking some of MATH 653, 676, 680, or subsequent courses.

B.S. degree with a major in mathematics, suggestions for mathematical biology:

For students interested in careers or further study in mathematical life sciences.

- BIOL 101 and CHEM 101 or CHEM 102
- At least one of BIOL 201, 202, 205
- At least two of BIOL 452, 454, 526, 551
- MATH 521
- One of MATH 522, 523, 528, 566
- One of MATH 534, 548, 578
- MATH 547 or 577
- Three or more mathematics courses numbered above 500. Consider especially MATH 524, 529, 535, and 564

B.A. degree with a major in mathematics, suggestions for mathematical economics:

Suitable for students planning to go on to graduate school in economics or a related area, or pursue a career in economics, business, or finance. *Note: With three more ECON courses numbered above 400, the requirements for the B.A. in economics could also be satisfied.*

- ECON 101, 410, 420
- At least two of ECON 510, 511, 520, 570
- MATH 521
- At least three of MATH 522, 524, 535, 550, 555, 564, 565
- Either MATH 535/STOR 435 and STOR 555, or ECON 400 and 570
- MATH 547 or 577

B.A. degree with a major in mathematics, suggestions for future high school teachers:

- MATH 231 or 241, 232 or 283, 233, 381, and 383
- At least one of MATH 515, 534, 535, 548, 550
- MATH 521
- MATH 533
- MATH 547 or 577
- MATH 551
- STOR 155
- The Supplemental General Education requirement
- Eighteen hours of C or better (not C-) in MATH 233, 381, 383, or MATH courses numbered above 500